

FIGURE 2 A

XbaI * HgaI
TCTAGAGTC ATGAAACAAC AAAAACGGCT TTACGCCCGA TTGCTGACGC TGTATTATTC HgaI
PstI
GCTCATCTTC TTGCTGCCCTC ATTCTGCAGC AGCGGCGGCA AATCTTAATG GGACGCTGAT
GCAGTATTTT GAAATGGTACA TGCCCAATGA CGGCCAACAT TGGAAAGCGTT TGCAAAACGA
CTCGGCATAT TTGGCTGAAC ACGGTATTAC TGCCGCTCTGG ATTCCCCCGG CATATAAGGG
AACGAGCCAA GCGGATGTGG GCTACGGTGC TTACGACCTT TATGATTTAG GGGAGTTTCA
TCAAAAAGGG ACGGTTCCGA CAAAGTACGG CACAAAAGGA GAGCTGCAAT CTGCGATCAA
AAGTCTTCAT TCCCGCGACA TTAACGTTTA CGGGGATGTG GTCATCAACC ACAAAGCGGG
CGCTGATCG ACCGAAGATG TAACCGCGGT TGAAGTCGAT CCCGCTGACC GCAACCGCGT
AATTTCAGGA GAACACCTAA TTAAAGCCTG GACACATTTT CATTTTCCGG GCGCGGCGAG
CACATACAGC GATTITAAAT GGCATTGGTA CCATTTTGAC GGAACCGATT GGGACGAGTC
CCGAAAGCTG AACCGCATCT ATAAGTTTCA AGGAAAGGCT TGGGATTGGG AAGTTTCCAA
TGAAAACGGC AACTATGATT ATTTGATGTA TGCCGACATC GATTATGACC ATCCTGATGT
CGCAGCAGAA ATTAAGAGAT GGGGCACCTTG GTATGCCAAT GAACTGCAAT TGGACGGTTT
CCGTCTTGAT GCTGTCAAAC ACATTAAATT TTCTTTTTTG CGGGATTGGG TTAATCATGT
CAGGGAAAAA ACGGGGAAGG AAATGTTTAC GGTAGCTGAA TATTGGCAGA ATGACTTGGG

BamHI

λGCMAATGTG TCGAAATGA CGGTATCGCG GGTGATCA

FIGURE 3

Oligonucleotide duplex A

NcoI BamHI HindIII
 5' GGGTTTATTATTTTAAATTTCTTTCAAAATACTTCCACCATGGGTACGGATCCA 3' SEQ ID NO:6
 3' CCCAAAAATAAAATTAAGAAAGTTTATGAAGGTGGTACCCATTGCCCTAGGTTCCA 5' SEQ ID NO:7

Oligonucleotide duplex B

NcoI HgaI SITE
 α-AMYLASE
 5' CATG GCAAATCTTAATGGACGCTGATG 3' SEQ ID NO:8
 3' CGTTAGAAATTACCTGCGACTACGTCAT 5' SEQ ID NO:9
 Met' mature α-Amylase

FIGURE 2 A

<u>XbaI</u>	*	<u>HgaI</u>
<u>TCTAGAGTC</u>	ATGAAACAAC AAAAACGGCT TTACGCCCGA TTGCTGACGC	TGTTATTTGC
	<u>PstI</u>	<u>HgaI</u>
GCTCATCTTC	TTGCTGCCTC ATTCTGCAGC AGCGGGCGCA AATCTTAATG	<u>GGACGCTGAT</u>
GCAGTATTTT	GAATGGTACA TGCCCAATGA CGGCCAACAT TGAAGCGCTT	TGCAAAACGA
CTCGGCATAT	TTGGCTGAAC ACGGTATTAC TGCCGTCTGG ATTCCCCCGG	CATATAAGGG
AACGAGCCAA	GCGGATGTGG GCTACGGTGC TTACGACCTT TATGATTTAG	GGGAGTTTCA
TCAAAAAAGG	ACGGTTCGGA CAAAGTACGG CACAAAAGGA GAGCTGCAAT	CTGCGATCAA
AAGTCTTCAT	TCCCGCGACA TTAACGTTTA CGGGGATGTG GTCATCAACC	ACAAAGGCGG
CGCTGATGCG	ACCGAAGATG TAAACCGCGGT TGAAGTCGAT CCGCTGACC	GCAACCGCGT
AAATTCAGGA	GAACACCTAA TTAAAGCCTG GACACATTTT CATTTTCCGG	GGCGCGGCAG
CACATACAGC	GAATTTTAAAT GGCATTGGTA CCATTTTGAC GGAACCGATT	GGGACGAGTC
CCGAAAGCTG	AACCGCATCT ATAAGTTTCA AGGAAAGGCT TGGGATTGGG	AAGTTTCCAA
TGAAAAACGGC	AACATATGATT ATTTGATGTA TGCCGACATC GATTATGACC	ATCCTGATGT
CGCAGCAGAA	ATTAAGAGAT GGGGCACCTG GTATGCCAAT GAACTGCAAT	TGGACGGTTT
CCGTCTTGAT	GCTGTCAAAC ACATTAAATT TTCTTTTTTG CGGGATTGGG	TTAATCATGT
CAGGGAAAAA	ACGGGGAAGG AAATGTTTAC GGTAGCTGAA TATTGGCAGA	ATGACTTGGG

FIGURE 2 B

CGCGCTGGAA AACTATTGA ACAAACAAA TTTTAATCAT TCAGTGTTCG ACGTGCCGCT
TCATTATCAG TTCCATGCTG CATCGACACA GGGAGCGCGC TATGATATGA GGAATATGCT
GAACGGTACG GTCGTTTCCA AGCATCCGTT GAAATCGGTT ACATTGTGCG ATAACCATGA
Sali

TACACAGCCG GGGCAATCGC TTGAGTCGAC TGTCCAAACA TGGTTTAAGC CGCTTGCTTA
CGCTTTTATT CTCACAAAGG AATCTGGATA CCTCAGGTT TTCTACGGGG ATATGTACGG
GACGAAAGGA GACTCCCAGC GCGAAATTCC TGCCTTGAAA CACAAAATTG AACCGATCTT
AAAAGCGAGA AAACAGTATG CGTACGGAGC ACAGCATGAT TATTTCGACC ACCATGACAT
TGTCGGCTGG ACAAGGGAAG GCGACAGCTC GGTGCAAAAT TCAGGTTTGG CGGCATTAAAT
AACAGACGGA CCCGGTGGG CAAAGCGAAT GTATGTCGGC CGGCAAAACG CCGGTGAGAC
ATGGCATGAC ATTACCGGAA ACCGTTCCGA GCGGTTGTC ATCAATTCCG AAGGCTGGGG
AGAGTTTCAC GTAAACGGCG GGTCCGTTTC AATTATGTT CAAAGATAGA AGAGCAGAGA

BamHI

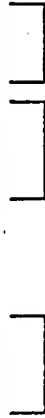
GGACGGATTT CCTGAAGGAA ATCCGTTTTT TTATTTTGCC CGTCTATAAA ATTCTTTGA
TTACATTTTA TAATTAAATT TAACAAAGTG TCATCAGCCC TCAGGAAGGA CTTGCTGACA
GTTTGAATCG CATAGGTAAG GCGGGGATGA AATGGCAACG TTATCTGATG TAGCAAAGAA
BclI

AGCAAAATGTG TCGAAAAATGA CCGTATCGCG GGTGATCA SEQ ID NO: 5

FIGURE 3

Oligonucleotide duplex A

NcoI BamHI HindIII



5' GGGTTTATTTTAAATTTCTTTCAAAATACTTCCACCATGGGTAACGGATCCA 3'
 3' CCCAAAATAAAAAATTAAAGAGTTTATGAAGGTGGTACCCATTGCCCTAGGTTCCA 5'

SEQ ID NO: 6
 SEQ ID NO: 7

Oligonucleotide duplex BHgaI SITE
α-AMYLASE

NcoI



5' CATG GCAAACTCTTAATGGACGCTGATG 3' SEQ ID NO: 8
 3' CGTTAGAATTACCTGCGACTACGTCAT 5' SEQ ID NO: 9

Met' mature α-Amylase